

Rongxian Ou

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,448
citations

331670

21
h-index

330143

37
g-index

45
all docs

45
docs citations

45
times ranked

1198
citing authors

#	ARTICLE	IF	CITATIONS
1	Grafting effects of polypropylene/polyethylene blends with maleic anhydride on the properties of the resulting wood-plastic composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 150-157.	7.6	123
2	Morphology, mechanical properties, and dimensional stability of wood particle/high density polyethylene composites: Effect of removal of wood cell wall composition. <i>Materials & Design</i> , 2014, 58, 339-345.	5.1	97
3	Flame retardant eugenol-based thiol-ene polymer networks with high mechanical strength and transparency. <i>Chemical Engineering Journal</i> , 2019, 368, 359-368.	12.7	90
4	Effect of wood cell wall composition on the rheological properties of wood particle/high density polyethylene composites. <i>Composites Science and Technology</i> , 2014, 93, 68-75.	7.8	84
5	Reinforcing effects of Kevlar fiber on the mechanical properties of wood-flour/high-density-polyethylene composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 1272-1278.	7.6	83
6	From plant phenols to novel bio-based polymers. <i>Progress in Polymer Science</i> , 2022, 125, 101473.	24.7	78
7	Effects of fiber geometry and orientation distribution on the anisotropy of mechanical properties, creep behavior, and thermal expansion of natural fiber/HDPE composites. <i>Composites Part B: Engineering</i> , 2020, 185, 107778.	12.0	74
8	Fully recyclable, flame-retardant and high-performance carbon fiber composites based on vanillin-terminated cyclophosphazene polyimine thermosets. <i>Composites Part B: Engineering</i> , 2021, 224, 109188.	12.0	63
9	Preparation and Characterization of Modified Porous Wood Flour/Lauric-Myristic Acid Eutectic Mixture as a Form-Stable Phase Change Material. <i>Energy & Fuels</i> , 2018, 32, 5453-5461.	5.1	53
10	Synthesis of lignin-based polyols via thiol-ene chemistry for high-performance polyurethane anticorrosive coating. <i>Composites Part B: Engineering</i> , 2020, 200, 108295.	12.0	47
11	High-performance epoxy vitrimer with superior self-healing, shape-memory, flame retardancy, and antibacterial properties based on multifunctional curing agent. <i>Composites Part B: Engineering</i> , 2022, 242, 110109.	12.0	46
12	Mechanical properties, creep resistance, and dimensional stability of core/shell structured wood flour/polyethylene composites with highly filled core layer. <i>Construction and Building Materials</i> , 2019, 226, 879-887.	7.2	38
13	Water-Induced Self-Assembly and <i>In Situ</i> Mineralization within Plant Phenolic Glycol-Gel toward Ultrastrong and Multifunctional Thermal Insulating Aerogels. <i>ACS Nano</i> , 2022, 16, 9062-9076.	14.6	38
14	Design of Intrinsically Flame-Retardant Vanillin-Based Epoxy Resin for Thermal-Conductive Epoxy/Graphene Aerogel Composites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59341-59351.	8.0	35
15	Solid biopolymer electrolytes based on all-cellulose composites prepared by partially dissolving cellulosic fibers in the ionic liquid 1-butyl-3-methylimidazolium chloride. <i>Journal of Materials Science</i> , 2012, 47, 5978-5986.	3.7	34
16	Effects of ionic liquid on the rheological properties of wood flour/high density polyethylene composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 61, 134-140.	7.6	34
17	High-strength, lightweight, co-extruded wood flour-polyvinyl chloride/lumber composites: Effects of wood content in shell layer on mechanical properties, creep resistance, and dimensional stability. <i>Journal of Cleaner Production</i> , 2020, 244, 118860.	9.3	28
18	Interfacial adhesion mechanisms of ultra-highly filled wood fiber/polyethylene composites using maleic anhydride grafted polyethylene as a compatibilizer. <i>Materials and Design</i> , 2021, 212, 110182.	7.0	27

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19	Toughness and crystallization enhancement in wood fiber-reinforced polypropylene composite through controlling matrix nucleation. <i>Journal of Materials Science</i> , 2018, 53, 6542-6551.	3.7	26
20	Sustainable, high-performance, flame-retardant waterborne wood coatings via phytic acid based green curing agent for melamine-urea-formaldehyde resin. <i>Progress in Organic Coatings</i> , 2022, 162, 106597.	3.9	24
21	The influence of double-layered distribution of fire retardants on the fire retardancy and mechanical properties of wood fiber polypropylene composites. <i>Construction and Building Materials</i> , 2020, 242, 118047.	7.2	23
22	Highly compressible hydrogel sensors with synergistic long-lasting moisture, extreme temperature tolerance and strain-sensitivity properties. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3319-3327.	5.9	22
23	The properties of flax fiber reinforced wood flour/high density polyethylene composites. <i>Journal of Forestry Research</i> , 2018, 29, 533-540.	3.6	21
24	Development and evaluation of a surface-densified wood composite with an asymmetric structure. <i>Construction and Building Materials</i> , 2020, 242, 118007.	7.2	21
25	Fully Biobased Soy Protein Adhesives with Integrated High-Strength, Waterproof, Mildew-Resistant, and Flame-Retardant Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6675-6686.	6.7	20
26	Synergistic toughening effects of grafting modification and elastomer-olefin block copolymer addition on the fracture resistance of wood particle/polypropylene/elastomer composites. <i>Materials and Design</i> , 2019, 181, 107918.	7.0	19
27	Recycling end-of-life WPC products into ultra-high-filled, high-performance wood fiber/polyethylene composites: a sustainable strategy for clean and cyclic processing in the WPC industry. <i>Journal of Materials Research and Technology</i> , 2022, 18, 1-14.	5.8	19
28	Bamboo particle reinforced polypropylene composites made from different fractions of bamboo culm: Fiber characterization and analysis of composite properties. <i>Polymer Composites</i> , 2019, 40, 4619-4628.	4.6	18
29	Rheological behavior and mechanical properties of wood flour/high density polyethylene blends: Effects of esterification of wood with citric acid. <i>Polymer Composites</i> , 2016, 37, 553-560.	4.6	17
30	Extraordinary solution-processability of lignin in phenolâ€‘maleic anhydride and dielectric films with controllable properties. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23162-23172.	10.3	16
31	Thermal, crystallization, and dynamic rheological behavior of wood particle/HDPE composites: Effect of removal of wood cell wall composition. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	14
32	Mechanical properties, morphology, and creep resistance of ultra-highly filled bamboo fiber/polypropylene composites: Effects of filler content and melt flow index of polypropylene. <i>Construction and Building Materials</i> , 2021, 310, 125289.	7.2	14
33	Effects of lubricants on the rheological and mechanical properties of wood flour/polypropylene composites. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47667.	2.6	13
34	Material pocket dynamic mechanical analysis: a novel tool to study thermal transition in wood fibers plasticized by an ionic liquid (IL). <i>Holzforschung</i> , 2015, 69, 223-232.	1.9	11
35	Synthesis and characterization of the n-butyl palmitate as an organic phase change material. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 2033-2039.	3.6	11
36	Solvent-free pulverization and surface fatty acylation of pulp fiber for property-enhanced cellulose/polypropylene composites. <i>Journal of Cleaner Production</i> , 2020, 244, 118811.	9.3	10

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37	Effects of chemical modification of wood flour on the rheological properties of high-density polyethylene blends. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	9
38	Enhancing the flame retardancy and mechanical properties of veneered wood flour/polyvinyl chloride composites. <i>Polymer Composites</i> , 2020, 41, 848-857.	4.6	9
39	Effects of SiO ₂ Filler in the Shell and Wood Fiber in the Core on the Thermal Expansion of Core-Shell Wood/Polyethylene Composites. <i>Polymers</i> , 2020, 12, 2570.	4.5	9
40	Isothermal crystallization kinetics of Kevlar fiber-reinforced wood flour/high-density polyethylene composites. <i>Journal of Applied Polymer Science</i> , 2012, 126, E2.	2.6	8
41	Developing a Unilaterally Surface-Densified Wood Composite with Excellent Performance through Surface Impregnation of Furfuryl Alcohol Resin. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5308-5318.	4.4	8
42	Statistical distribution of mechanical properties and energy absorption of laminated cotton fabric reinforced epoxy composites. <i>Polymer Composites</i> , 2020, 41, 2829-2840.	4.6	6
43	Mechanical Properties and Fire Retardancy of Wood Flour/High-Density Polyethylene Composites Reinforced with Continuous Honeycomb-Like Nano-SiO ₂ Network and Fire Retardant. <i>Journal of Renewable Materials</i> , 2020, 8, 485-498.	2.2	3
44	Rheological Properties of Wood-Plastic Composites by 3D Numerical Simulations: Different Components. <i>Forests</i> , 2021, 12, 417.	2.1	3
45	Comparative study on the effects of silica size and dispersion mode on the fire retardancy of extruded wood fiber/ HDPE composites. <i>Polymer Composites</i> , 2020, 41, 4920-4932.	4.6	2